

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 September 2004 (23.09.2004)

PCT

(10) International Publication Number
WO 2004/080416 A2

- (51) International Patent Classification⁷: **A61K**
- (21) International Application Number:
PCT/US2004/007457
- (22) International Filing Date: 11 March 2004 (11.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/453,886 12 March 2003 (12.03.2003) US
- (71) Applicants (for all designated States except US):
SAMARITAN PHARMACEUTICALS, INC. [US/US];
101 Convention Center, Suite 310, Las Vegas, NE 89109
(US). **GEORGETOWN UNIVERSITY** [US/US]; 37th
& O Streets, NW, Washington, DC 20057 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LECANU, Laurent**
[US/US]; 8370 Greensboro Drive, McLean, VA 22102
(US). **GREESON, Janet** [FR/US]; 2877 Paradise Road,
Las Vegas, NV 89109 (US). **PAPADOPOULOS, Vassilios**
[US/US]; 15417 Peach Leaf Drive, North Potomac, MD
20878 (US).
- (74) Agents: **REBMAN, Christine, M.** et al.; Mayer, Brown,
Rowe & Maw LLP, P.O. Box 2828, Chicago, IL 60690-
2828 (US).

- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.
- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ANIMAL MODEL SIMULATING NEUROLOGIC DISEASE

(57) Abstract: The present invention relates to the development of a pharmacological non-human animal model that associates memory loss to histopathological features found in the brain of a subject having Alzheimer's Disease. In one embodiment, a four-week continuous infusion of a Fe²⁺, A β ₄₂ and buthionine sulfoximine (FAB) solution in the left ventricle of young adult Long-Evans rats induced memory impairment accompanied by increased hyperphosphorylated Tau protein levels in cerebrospinal fluid. Brains from treated animals displayed neuritic plaques, tangles, neuronal loss, astrogliosis and microgliosis in hippocampus and cortex. The present invention may be utilized in evaluating preventive, therapeutic and diagnostic means for neurologic diseases.

WO 2004/080416 A2